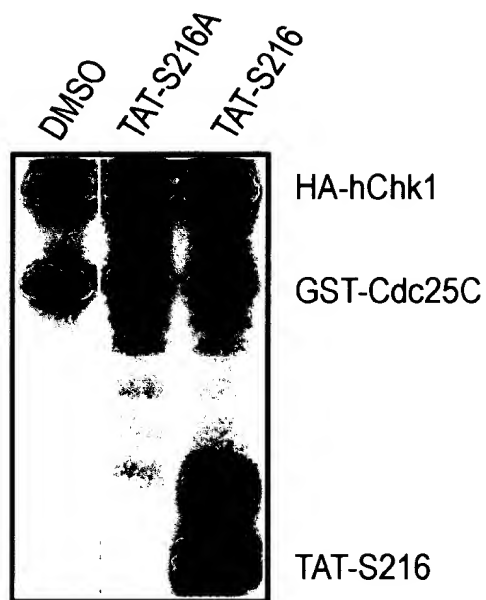
**FIG. 1A**

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FIG. 1B



	HA-hChk1				myc-Chk2/HuCds1			
TAT-S216A	5	10	20	40	5	10	20	40 μ M
Substrate	10	10	10	10	10	10	10	10 μ M



FIG. 1C

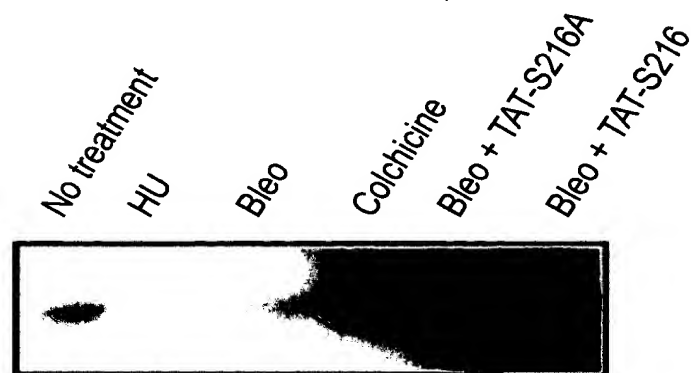


FIG. 2B



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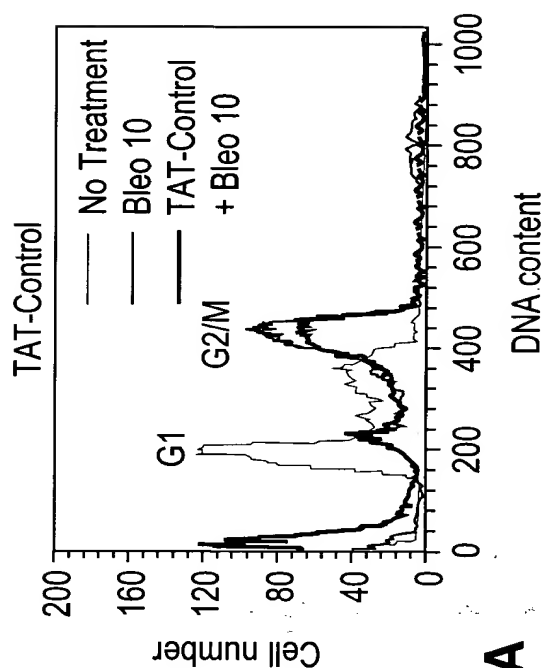
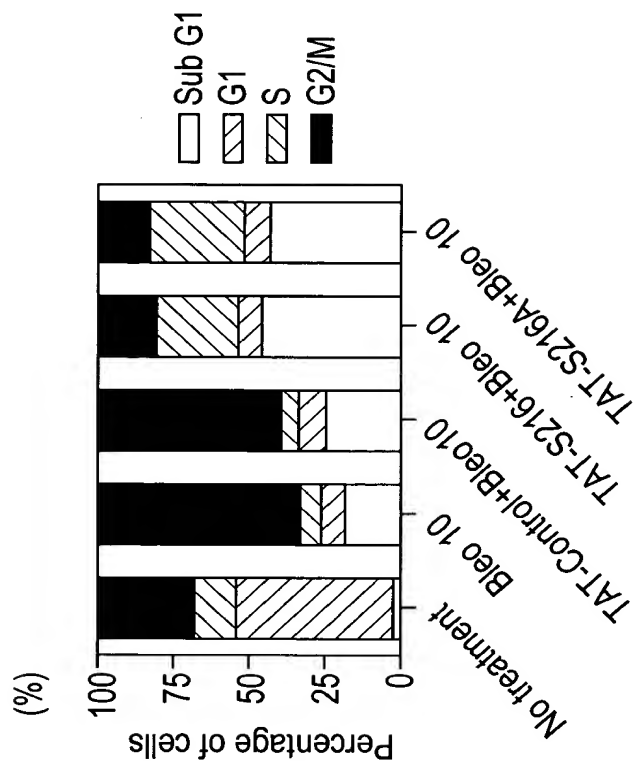
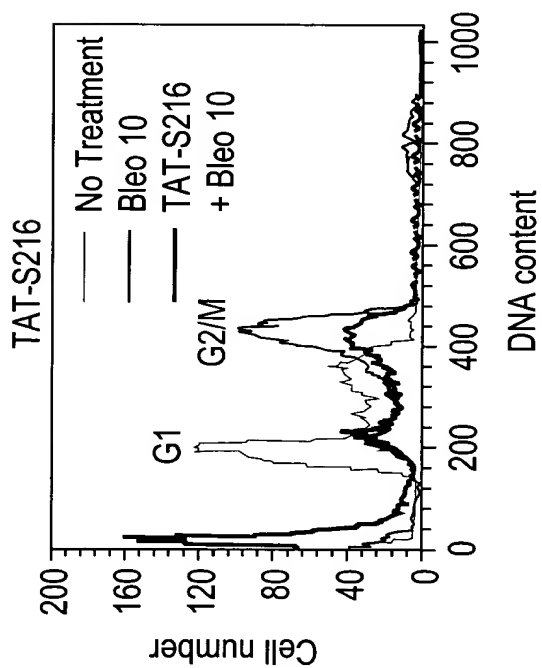
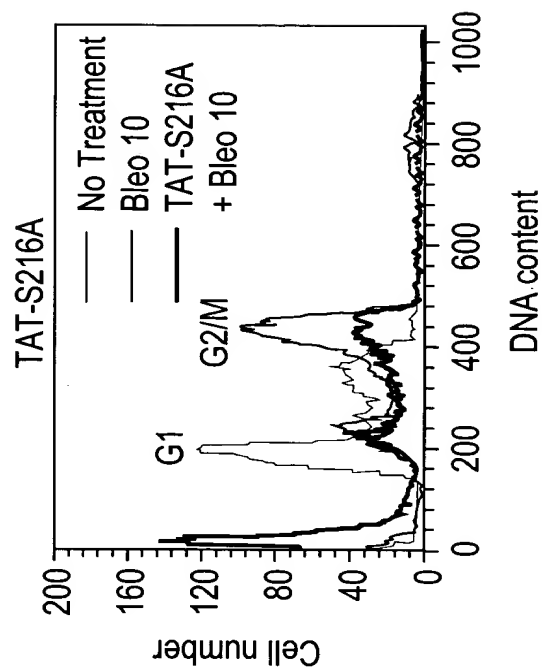


FIG. 2A

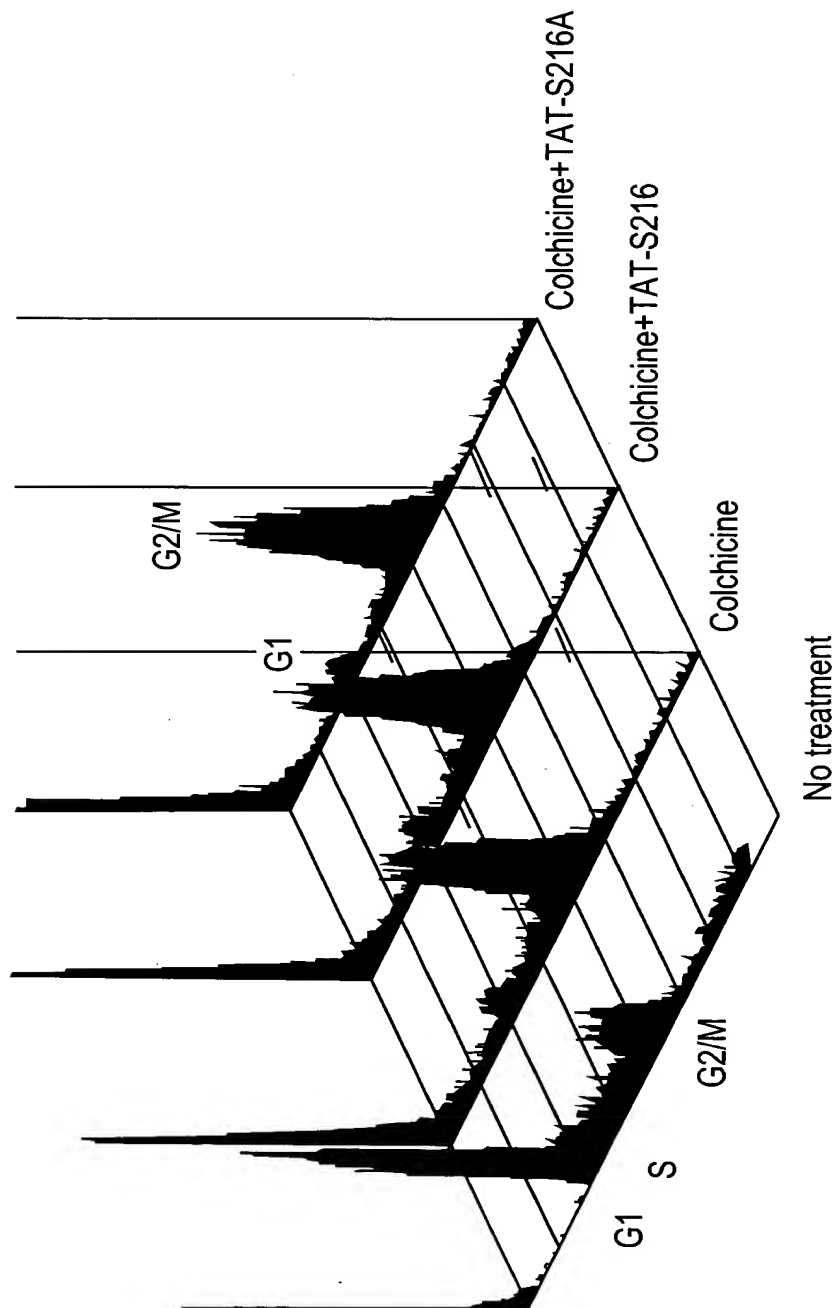


FIG. 2C



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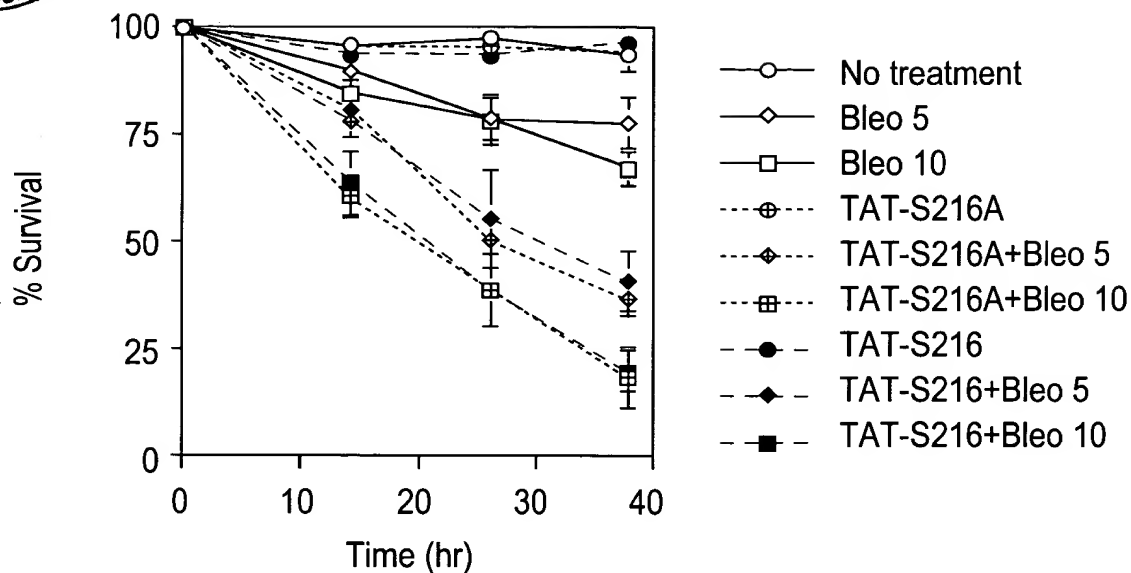


FIG. 3A

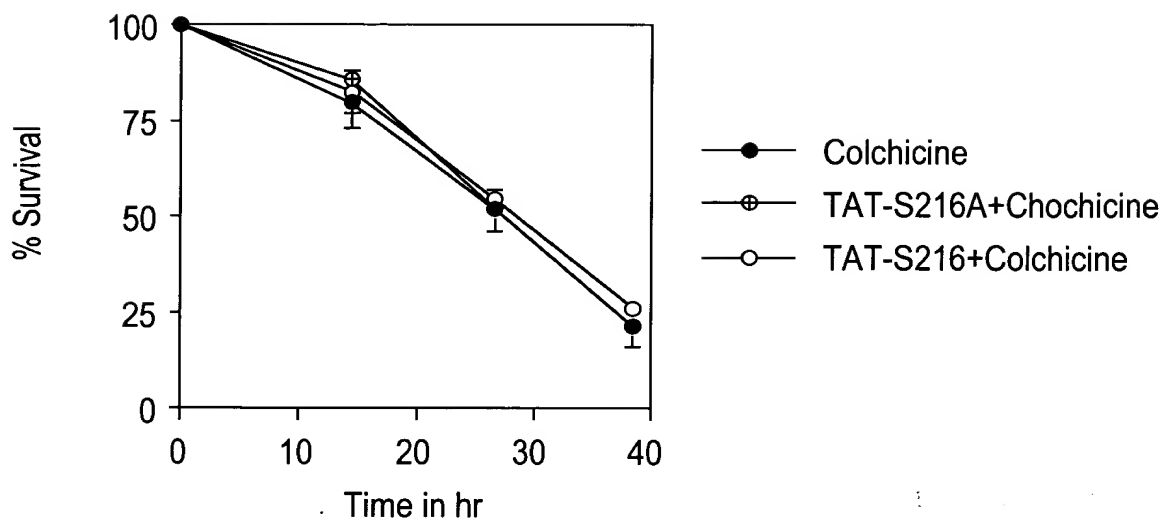


FIG. 3B

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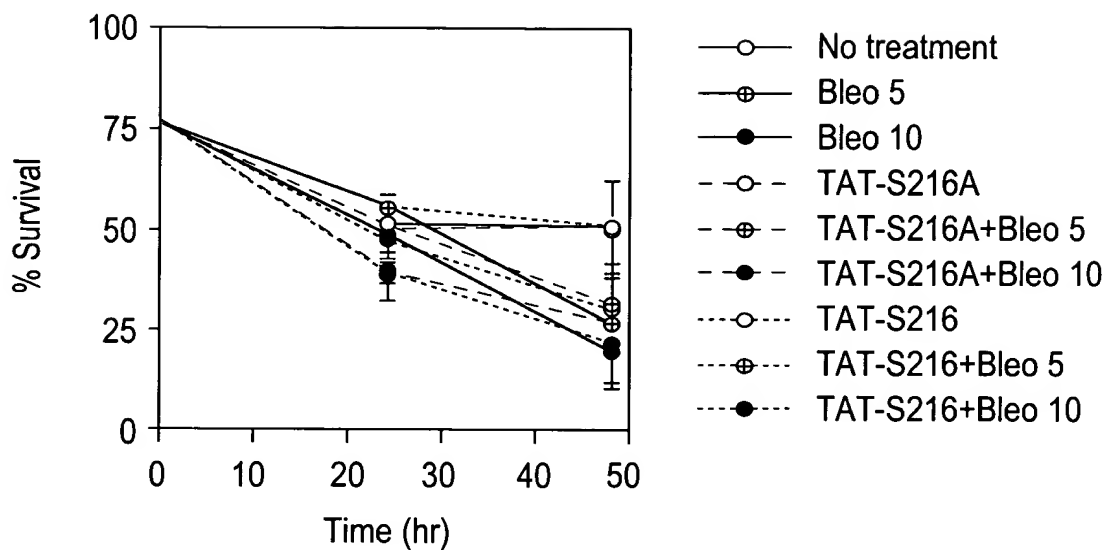


FIG. 3C

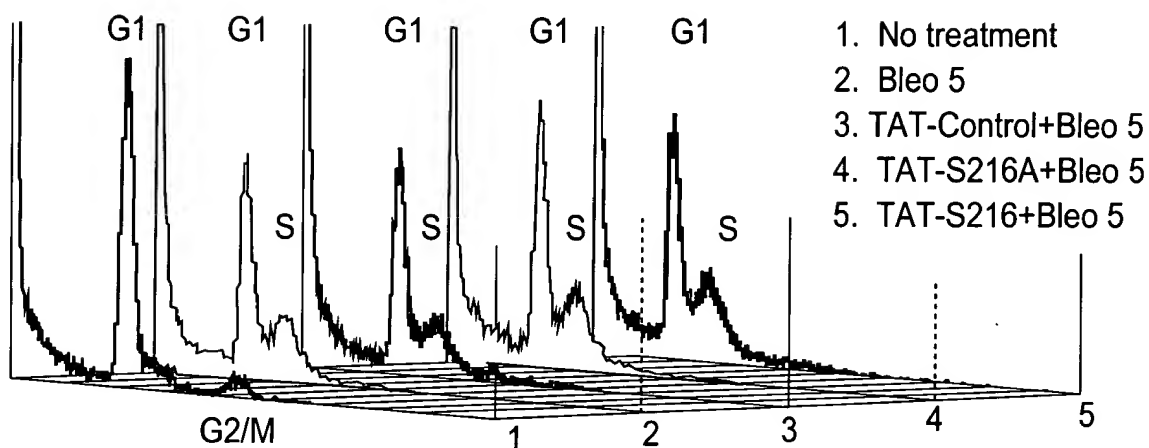


FIG. 3D

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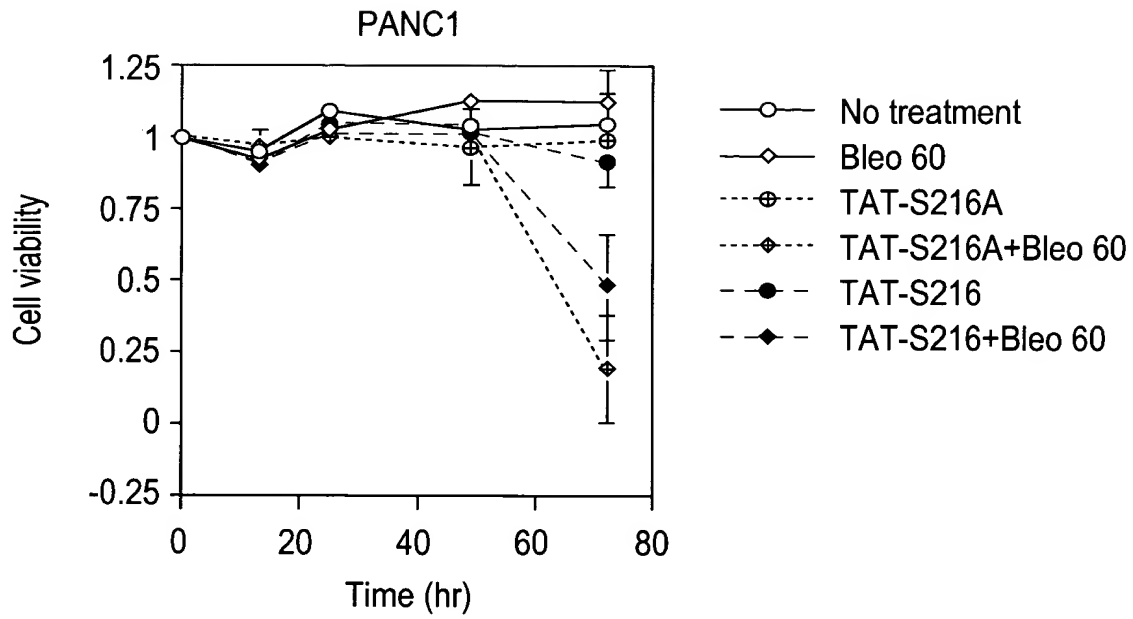


FIG. 4A

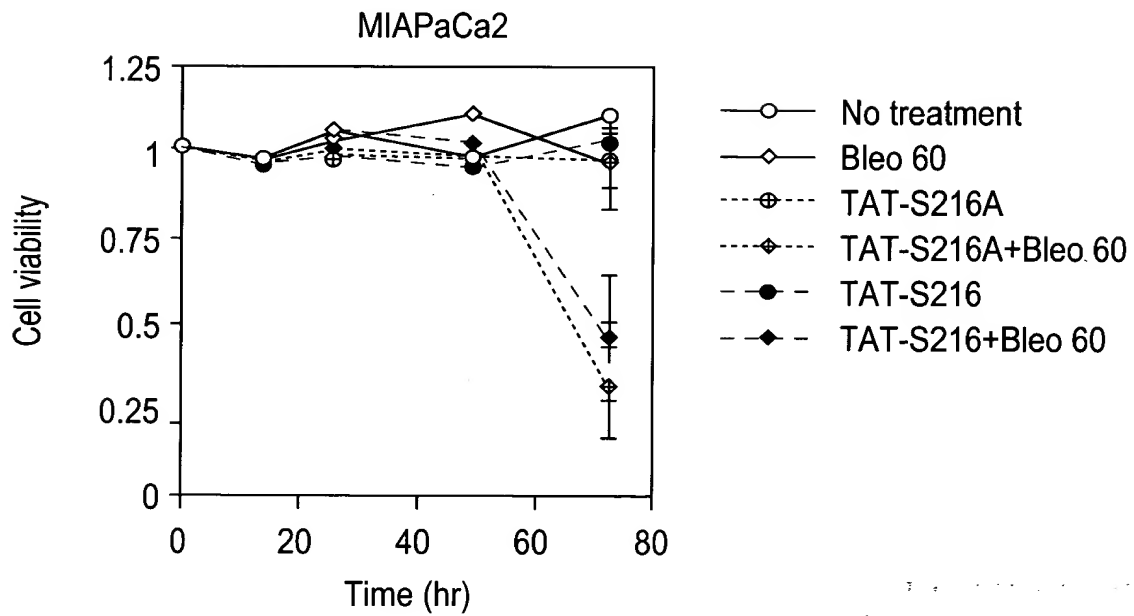


FIG. 4B

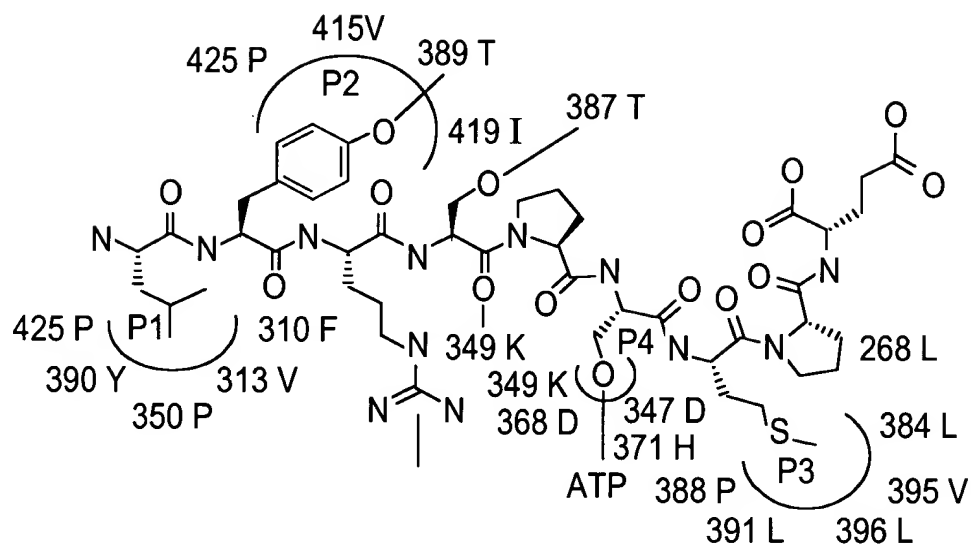


FIG. 5

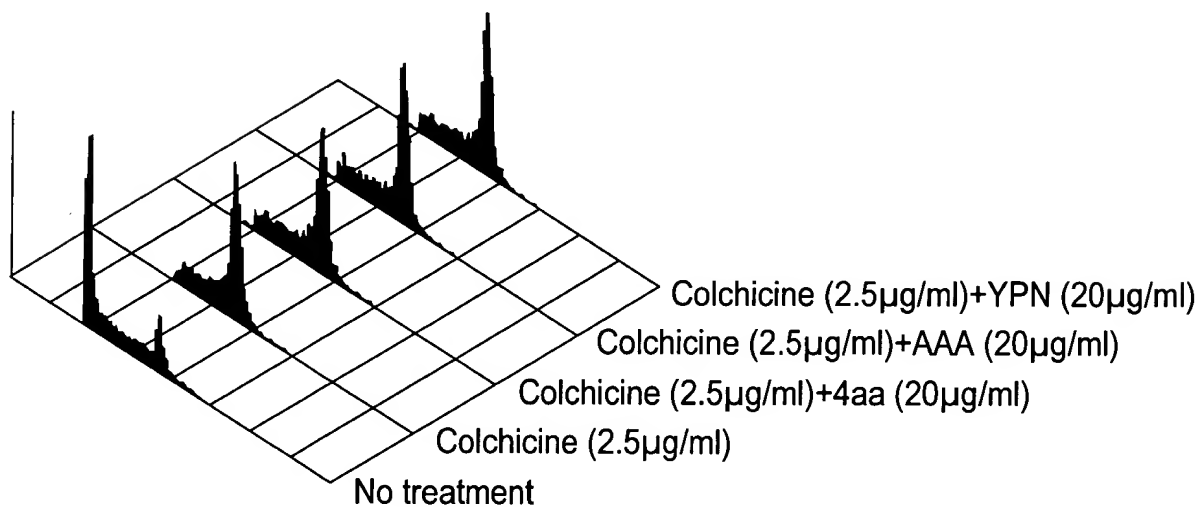


FIG. 7

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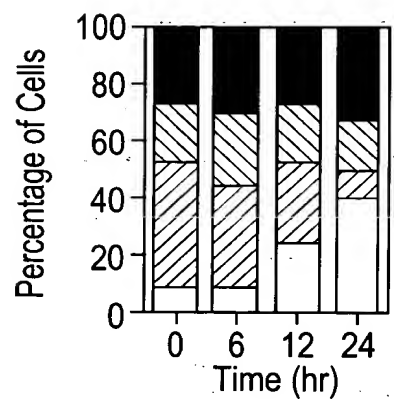
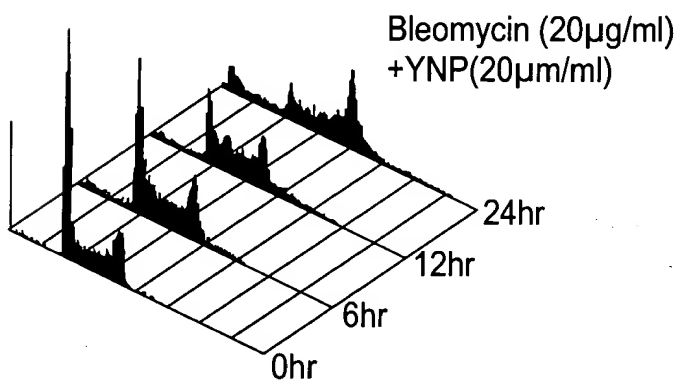
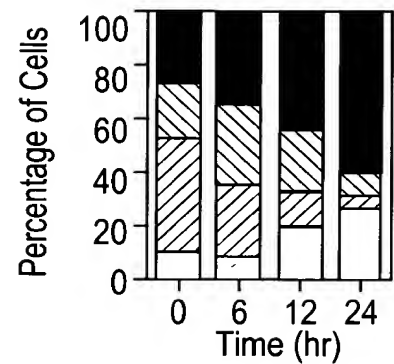
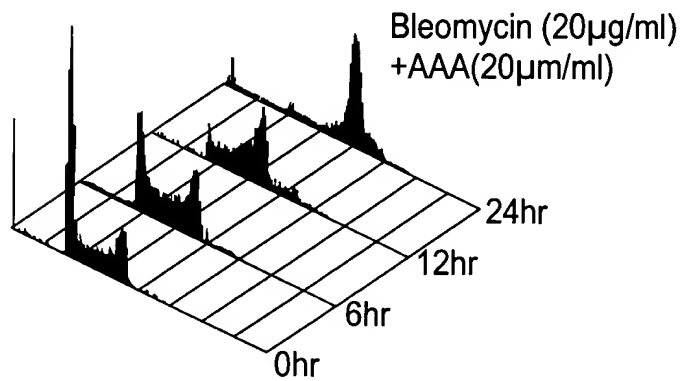
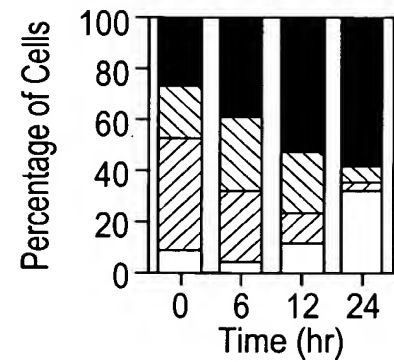
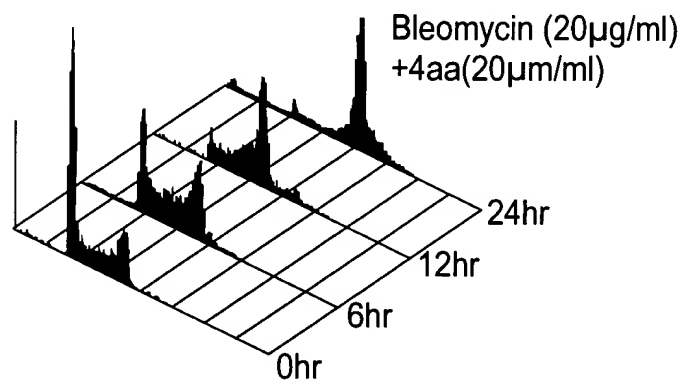
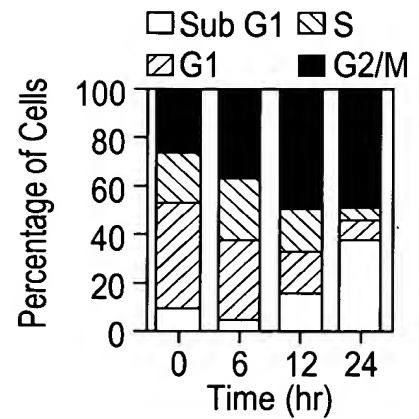
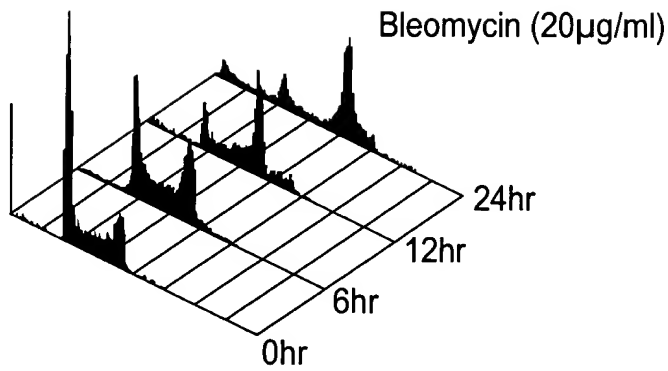


FIG. 6



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Name	Sequences
AAA	YGRKKRRQRRR LARSASMPEAL
YPN	YGRKKRRQRRR YGGPGGGGN
Random I	YGRKKRRQRRR YLSRSPPMNEL
Random II	YGRKKRRQRRR RYSLPPELSNM
S216A	YGRKKRRQRRR LYRSPAMPENL
S216	YGRKKRRQRRR LYRSPSPMPENL
SPAMPE	YGRKKRRQRRR GGRSPAMPE
SPAMPE	YGRKKRRQRRR GGSPAMP
RSPSPMP	YGRKKRRQRRR GGRSPSPMP
SPSPMP	YGRKKRRQRRR GGSPSPMP
SPAM	YGRKKRRQRRR GGSPAM
SPSM	YGRKKRRQRRR GGSPSM
YG7N	YGRKKRRQRRR YGGGGGGGN
YG6N	YGRKKRRQRRR YGGGGGGGN
YG5N	YGRKKRRQRRR YGGGGGN
YXPXN	Tyr-NH(CH ₂) ₄ CO-Pro-NH(CH ₂) ₁₀ C)-Asn
YX10N	Tyr-NH(CH ₂) ₁₀ CO-Asn
YX4N	Tyr-NH(CH ₂) ₄ CO-Asn
TAT-HA	YGRKKRRQRRR YPYDVPDYA
TAT-FLAG	YGRKKRRQRRR GGDYKDDDDKG

FIG. 8

SW620 Nude Mice Experiment

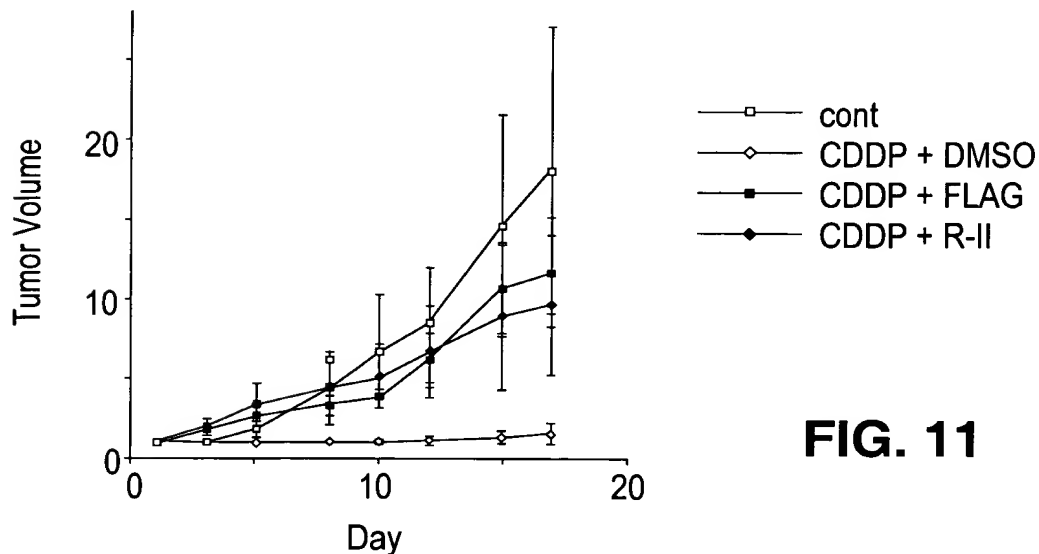


FIG. 11



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SUMMARY G2 Abrogation/Bleomycin

	10μM	20μM	40μM	80μM	160μM
No peptides	-	-	-	-	-
DMSO	-	-	-	-	-
FLAG	-	-	-	-	-
S216A	+	+	+	+	+
S216	+	+	+	+	+
Random II	+	+	+	+	+
YPN	-	+/-	+	+	+
YG7N	-	+/-	+	+	+
YG6N	-	+/-	+	+	+
YG5N	-	+/-	+	+	+
AAA	-	+/-	+	+	+
4aa	-	-	-	+/-	+

G2 ABROGATION/γ-radiation

	10μM	20μM	40μM
No peptides	-	N.D.	-
DMSO	-	N.D.	-
FLAG	-	N.D.	-
S216A	-	N.D.	+
Random II	+/-	N.D.	+

G2 ABROGATION/UV

	10μM	20μM	40μM
No peptides	-	N.D.	-
DMSO	-	N.D.	-
FLAG	-	N.D.	-
S216A	-	N.D.	+
Random II	-	N.D.	+

SUMMARY GstChk2 KINATION INHIBITION

	10μM	20μM	40μM	80μM	160μM
No peptides	-	-	-	-	N.D.
DMSO	-	-	-	-	N.D.
FLAG	-	-	-	-	N.D.
S216A	+/-	+	++	++	N.D.
S216	+/-	+	++	++	N.D.
Random II	+/-	+	++	++	N.D.
YPN	+/-	+/-	+	+	N.D.
YG7N	+/-	+/-	+	+	N.D.
YG6N	+/-	+/-	+	++	N.D.
YG5N	+/-	+/-	+	+	N.D.
AAA	+/-	+/-	+	+	N.D.
4aa	-	-	-	-	N.D.

M ABROGATION/Cochicine

	10μM	20μM	40μM
No peptides	-	N.D.	-
DMSO	-	N.D.	-
FLAG	-	N.D.	-
S216A	-	N.D.	-
Random II	-	N.D.	-

FIG. 9



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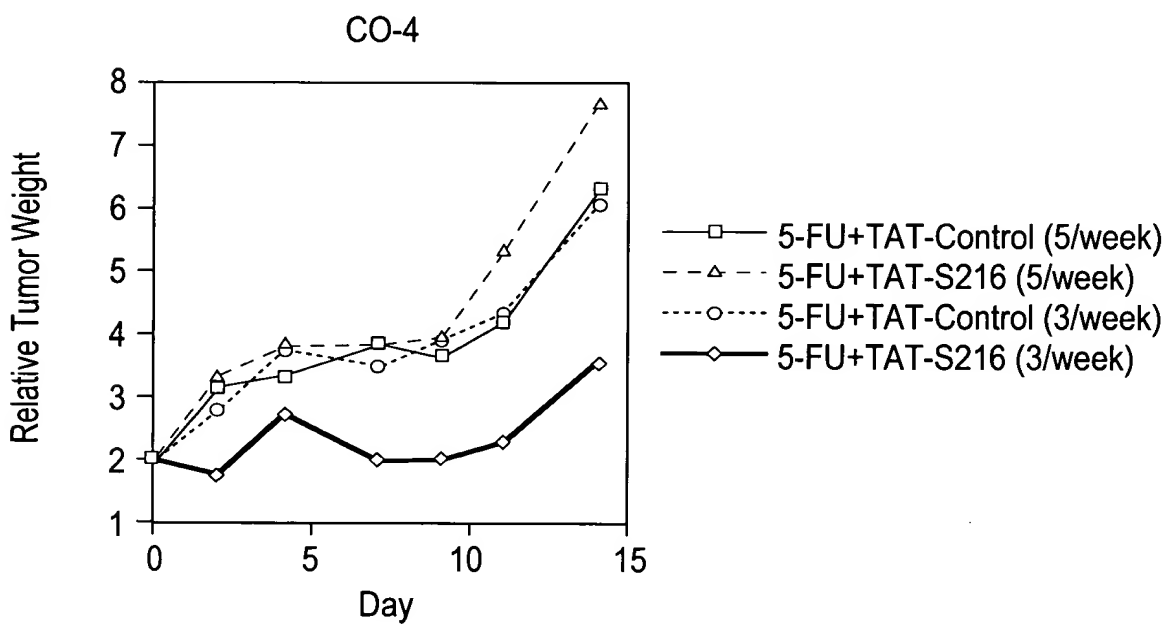
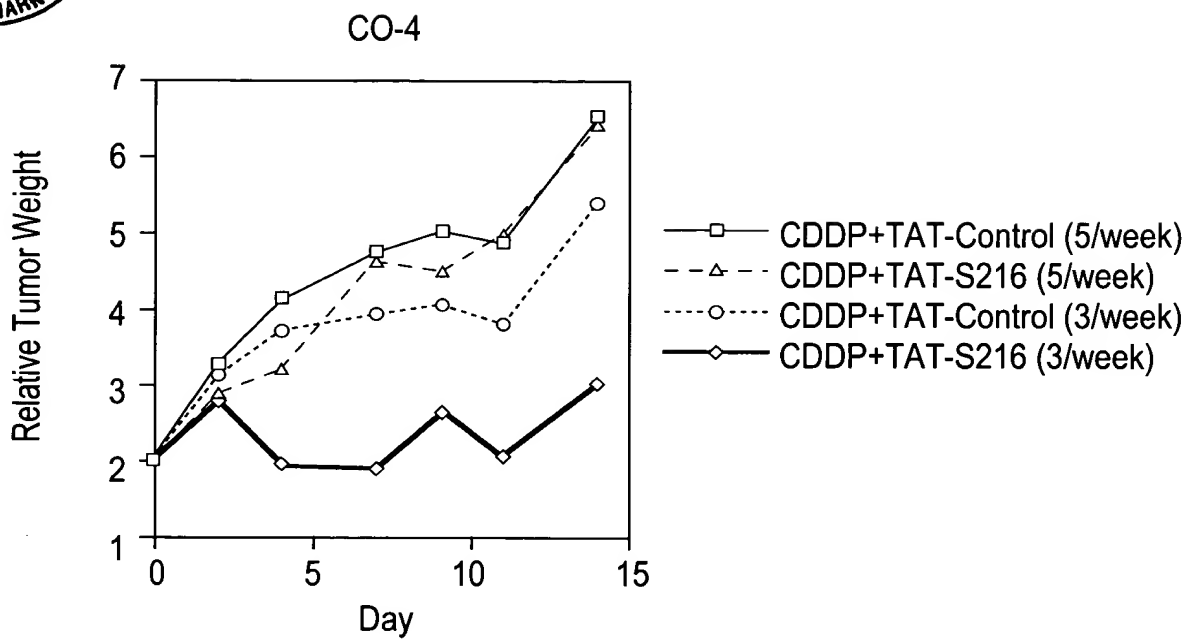


FIG. 10